# Author Index—Volume 55
# January–December 2007


Abu-Dieyeh, Mohammed H. ..... 371
Achdari, Gay ..... 152
Al-Khatib, Kassim ..... 147, 260, 429
Altpeter, Fredy ..... 412
Anderson, Gerald L. ..... 671
Anderson, James V. ..... 193, 346
Anderson, John C. ..... 283
Archer, David ..... 584
Ashigh, Jamshid ..... 558
Askew, Shawn D. ..... 541
Balba, Maria C. ..... 566
Ball, Daniel A. ..... 36, 91, 305
Band, Mark ..... 193
Barker, Darren C. ..... 102
Bauman, Thomas T. ..... 508
Baumgartner, Kendra ..... 352
Beam, Josh B. ..... 541
Bennett, Larry H. ..... 91
Bond, Jason A. ..... 293
Borkowski, John ..... 311
Boydston, Rick A. ..... 245
Brainard, Daniel ..... 218
Breiter, Nehalem C. ..... 164
Brelsford, Monica ..... 212
Bridges, Jr. William ..... 252
Brule-Babel, Anita L. ..... 60
Burger, Jutta C. ..... 204
Burgos, N. R. ..... 599
Burton, Michael G. ..... 486
CaJacob, Claire A. ..... 283
Cardina, John ..... 187, 455
Carruthers, Raymond I. ..... 671
Cathcart, Jason ..... 70
Caton, Barney P. ..... 386
Chandler, Kevin ..... 75
Chao, Wun S. ..... 193
Chase, Carlene A. ..... 613
Chauhan, Bhagirath S. ..... 481
Chen, Yun-Cia Sophia ..... 283
Christoffers, Michael J. ..... 95
Clay, Sharon A. ..... 546
Clayton, George W. ..... 70
Clewis, Scott B. ..... 264
Collins, Amanda S. ..... 613
Colquhoun, Jed B. ..... 517
Conley, Shawn P. ..... 592
Creech, J. Earl ..... 592, 665
Cuda, J.P. ..... 137
Culpepper, A. Stanley ..... 638
Dahlquist, Ruth M. ..... 619
Davies, Kirk W. ..... 178, 626
Davis, Adam S. ..... 30, 123, 245, 502
Davis, Richard F. ..... 143
Davis, Vince M. ..... 508
De Corby, Kristi A. ..... 60
de Prado, Rafael ..... 435
DeClerck-Floate, Rosemarie A. ..... 273
Dhileepan, K. ..... 497
Dille, J. Anita ..... 429
DiTommaso, Antonio ..... 218
Dodds, Darrin M. ..... 399, 406
Dong, L. ..... 537
Doohan, Douglas ..... 187
Duan, Liusheng ..... 95
Duff, Stephen M. G. ..... 283
Durgan, Beverly ..... 584
Eizenberg, Hanan ..... 152
Ellstrand, Norman C. ..... 204
Espinoza, Nelson ..... 435
Fabbri, Brad J. ..... 283
Faghihi, Jamal ..... 665
Fain, Glenn B. ..... 157
Faircloth, Wilson H. ..... 359
Fanning, Mark A. ..... 129
Ferris, Virginia R. ..... 665
Figueroa, Rodrigo ..... 187
Flanders, J. Timothy ..... 359
Foley, Michael E. ..... 193
Fonseca, Rafael L. ..... 41
Forcella, Frank ..... 455, 584
Fowler, Larry ..... 386
Friesen, Lyle F. ..... 60
Frost, Sandra M. ..... 91
Gauvrit, Christian ..... 435
Ge, Shaokui ..... 671
George, K. ..... 288
Gesch, Russ W. ..... 346
Ghersa, Claudio M. ..... 566
Gibson, Kevin D. ..... 299, 508
Gill, Gurjeet S. ..... 481
Gilliam, Charles H. ..... 157
Gong, George L. ..... 193
Gray, Cody J. ..... 293
Grey, Timothy L. ..... 157, 359, 638
Guermache, Fatiha ..... 465
Gulden, Robert H. ..... 75
Gundel, Pedro E. ..... 566
Hacault, Kristin ..... 70
Hager, Aaron G. ..... 327
Hall, Linda M. ..... 70
Haller, William T. ..... 12, 412, 441, 578
Hanson, Brad ..... 528
Harker, K. Neil ..... 70
Harrison, J. M. ..... 16
Harrison, S. K. ..... 16, 187
Henry, Gerald M. ..... 486
Henry, W. Brien ..... 1, 528
Herms, Catherine P. ..... 455
Herms, Daniel A. ..... 455
Hernandez, Alvaro G. ..... 193
Hershenhorn, Joseph ..... 152
Hoagland, Robert E. ..... 169
Holm, Rick A. ..... 70
Holt, Jodie S. ..... 204, 319
Horvath, David P. ..... 193, 546
Hsiao, Chau-Ling ..... 631
Hutchinson, Chad M. ..... 613
Hutchinson, Pamela J. S. ..... 521
Jacobs, James S. ..... 311
Jha, Prashant ..... 252
Johnson, William G. ..... 508, 592, 665
Jordan, David L. ..... 264
Kim, Ryan ..... 193
Kleemann, Samuel G. L. ..... 481
Knezevic, Stevan Z. ..... 102
Kniss, Andrew R. ..... 572
Koger, Clifford H. ..... 6, 399, 406
Krutz, L. Jason ..... 528
Lande, Tal ..... 152
Landis, Douglas A. ..... 606
Laufenberg, Stephen M. ..... 311
Lawes, Roger ..... 644
Lewinsohn, Thomas M. ..... 41
Li, J. ..... 537
Li, Runzhi ..... 95
Li, Zhaohu ..... 95
Lindquist, John L. ..... 102, 491
Lins, Ryan D. ..... 517
Liu, Lie ..... 193
Llewellyn, Danny ..... 546
Lovelace, Michael L. ..... 169
Lubbers, Mark D. ..... 260
Luschei, Edward C. ..... 129
MacDonald, Gregory E. ..... 12, 412, 441, 578
Mallory-Smith, Carol A. ..... 36, 49, 305, 517
Mantripagada, Nehre ..... 638
Martin, Alexander R. ..... 102, 491
Martinson, Krishona ..... 584
Massey, Joseph H. ..... 406
Maxwell, B. D. ..... 652
Maxwell, Bruce D. ..... 212
McPeek, Tamara M. ..... 334
Menalled, Fabian D. ..... 606
Mengistu, Lemma W. ..... 95
Messersmith, Calvin G. ..... 240
Michittte, Paola ..... 435
Mikel, Mark A. ..... 193
Miller, Stephen D. ..... 572
Mohan, J.E. ..... 288
Mohler, Charles L. ..... 218
Molnar, Louis J. ..... 273
Morishita, Don W. ..... 521
Moss, Stephen R. ..... 537
Moyer, James R. ..... 273
Nalewaja, John D. ..... 240
Nandula, Vijay K. ..... 6
Naylor, Robert E.L. ..... 23
Norsworthy, Jason K. ..... 111, 227, 252, 341, 474
O'Donovan, John T. ..... 70
Oliveira, Marcos J. ..... 111, 227, 341, 474
Oliver, Lawrence R. ..... 293
Osborne, Jason A. ..... 157
Palmquist, Debra ..... 346
Panetta, F. Dane ..... 644
Parker, Chris ..... 386
Parsons, Robert F. ..... 185
Patzoldt, William L. ..... 327, 421
Peachey, R.E. ..... 49
Peterson, A. Townsend ..... 41
Poston, Daniel H. ..... 6
Powles, Stephen B. ..... 566
Prather, Timothy S. ..... 619
Price, William J. ..... 521
Prostko, Eric P. ..... 359
Puri, Atul ..... 12, 412, 441, 578
Quinn, Lauren D. ..... 319
Raimundo, Rafael L. G. ..... 41
Rauterkus, Michael A. ..... 319
Rayburn, A. Lane ..... 119
Reddy, Krishna N. ..... 6
Regnier, E. E. ..... 16
Renner, Karen A. ..... 30, 606
Rew, L. J. ..... 652
Reynolds, Daniel B. ..... 399, 406
Roichman, Asia ..... 152
Ruiz-Santaella, Juan Pedro ..... 435
Santini, Judith B. ..... 592
Sapsford, Kenneth L. ..... 70

# Author Index—Volume 55
# January–December 2007


Abu-Dieyeh, Mohammed H. ..... 371
Achdari, Gay ..... 152
Al-Khatib, Kassim ..... 147, 260, 429
Altpeter, Fredy ..... 412
Anderson, Gerald L. ..... 671
Anderson, James V. ..... 193, 346
Anderson, John C. ..... 283
Archer, David ..... 584
Ashigh, Jamshid ..... 558
Askew, Shawn D. ..... 541
Balba, Maria C. ..... 566
Ball, Daniel A. ..... 36, 91, 305
Band, Mark ..... 193
Barker, Darren C. ..... 102
Bauman, Thomas T. ..... 508
Baumgartner, Kendra ..... 352
Beam, Josh B. ..... 541
Bennett, Larry H. ..... 91
Bond, Jason A. ..... 293
Borkowski, John ..... 311
Boydston, Rick A. ..... 245
Brainard, Daniel ..... 218
Breiter, Nehalem C. ..... 164
Brelsford, Monica ..... 212
Bridges, Jr. William ..... 252
Brule-Babel, Anita L. ..... 60
Burger, Jutta C. ..... 204
Burgos, N. R. ..... 599
Burton, Michael G. ..... 486
CaJacob, Claire A. ..... 283
Cardina, John ..... 187, 455
Carruthers, Raymond I. ..... 671
Cathcart, Jason ..... 70
Caton, Barney P. ..... 386
Chandler, Kevin ..... 75
Chao, Wun S. ..... 193
Chase, Carlene A. ..... 613
Chauhan, Bhagirath S. ..... 481
Chen, Yun-Cia Sophia ..... 283
Christoffers, Michael J. ..... 95
Clay, Sharon A. ..... 546
Clayton, George W. ..... 70
Clewis, Scott B. ..... 264
Collins, Amanda S. ..... 613
Colquhoun, Jed B. ..... 517
Conley, Shawn P. ..... 592
Creech, J. Earl ..... 592, 665
Cuda, J.P. ..... 137
Culpepper, A. Stanley ..... 638
Dahlquist, Ruth M. ..... 619
Davies, Kirk W. ..... 178, 626
Davis, Adam S. ..... 30, 123, 245, 502
Davis, Richard F. ..... 143
Davis, Vince M. ..... 508
De Corby, Kristi A. ..... 60
de Prado, Rafael ..... 435
DeClerck-Floate, Rosemarie A. ..... 273
Dhileepan, K. ..... 497
Dille, J. Anita ..... 429
DiTommaso, Antonio ..... 218
Dodds, Darrin M. ..... 399, 406
Dong, L. ..... 537
Doohan, Douglas ..... 187
Duan, Liusheng ..... 95
Duff, Stephen M. G. ..... 283
Durgan, Beverly ..... 584
Eizenberg, Hanan ..... 152
Ellstrand, Norman C. ..... 204
Espinoza, Nelson ..... 435
Fabbri, Brad J. ..... 283
Faghihi, Jamal ..... 665
Fain, Glenn B. ..... 157
Faircloth, Wilson H. ..... 359
Fanning, Mark A. ..... 129
Ferris, Virginia R. ..... 665
Figueroa, Rodrigo ..... 187
Flanders, J. Timothy ..... 359
Foley, Michael E. ..... 193
Fonseca, Rafael L. ..... 41
Forcella, Frank ..... 455, 584
Fowler, Larry ..... 386
Friesen, Lyle F. ..... 60
Frost, Sandra M. ..... 91
Gauvrit, Christian ..... 435
Ge, Shaokui ..... 671
George, K. ..... 288
Gesch, Russ W. ..... 346
Ghersa, Claudio M. ..... 566
Gibson, Kevin D. ..... 299, 508
Gill, Gurjeet S. ..... 481
Gilliam, Charles H. ..... 157
Gong, George L. ..... 193
Gray, Cody J. ..... 293
Grey, Timothy L. ..... 157, 359, 638
Guermache, Fatiha ..... 465
Gulden, Robert H. ..... 75
Gundel, Pedro E. ..... 566
Hacault, Kristin ..... 70
Hager, Aaron G. ..... 327
Hall, Linda M. ..... 70
Haller, William T. ..... 12, 412, 441, 578
Hanson, Brad ..... 528
Harker, K. Neil ..... 70
Harrison, J. M. ..... 16
Harrison, S. K. ..... 16, 187
Henry, Gerald M. ..... 486
Henry, W. Brien ..... 1, 528
Herms, Catherine P. ..... 455
Herms, Daniel A. ..... 455
Hernandez, Alvaro G. ..... 193
Hershenhorn, Joseph ..... 152
Hoagland, Robert E. ..... 169
Holm, Rick A. ..... 70
Holt, Jodie S. ..... 204, 319
Horvath, David P. ..... 193, 546
Hsiao, Chau-Ling ..... 631
Hutchinson, Chad M. ..... 613
Hutchinson, Pamela J. S. ..... 521
Jacobs, James S. ..... 311
Jha, Prashant ..... 252
Johnson, William G. ..... 508, 592, 665
Jordan, David L. ..... 264
Kim, Ryan ..... 193
Kleemann, Samuel G. L. ..... 481
Knezevic, Stevan Z. ..... 102
Kniss, Andrew R. ..... 572
Koger, Clifford H. ..... 6, 399, 406
Krutz, L. Jason ..... 528
Lande, Tal ..... 152
Landis, Douglas A. ..... 606
Laufenberg, Stephen M. ..... 311
Lawes, Roger ..... 644
Lewinsohn, Thomas M. ..... 41
Li, J. ..... 537
Li, Runzhi ..... 95
Li, Zhaohu ..... 95
Lindquist, John L. ..... 102, 491
Lins, Ryan D. ..... 517
Liu, Lie ..... 193
Llewellyn, Danny ..... 546
Lovelace, Michael L. ..... 169
Lubbers, Mark D. ..... 260
Luschei, Edward C. ..... 129
MacDonald, Gregory E. ..... 12, 412, 441, 578
Mallory-Smith, Carol A. ..... 36, 49, 305, 517
Mantripagada, Nehre ..... 638
Martin, Alexander R. ..... 102, 491
Martinson, Krishona ..... 584
Massey, Joseph H. ..... 406
Maxwell, B. D. ..... 652
Maxwell, Bruce D. ..... 212
McPeek, Tamara M. ..... 334
Menalled, Fabian D. ..... 606
Mengistu, Lemma W. ..... 95
Messersmith, Calvin G. ..... 240
Michittte, Paola ..... 435
Mikel, Mark A. ..... 193
Miller, Stephen D. ..... 572
Mohan, J.E. ..... 288
Mohler, Charles L. ..... 218
Molnar, Louis J. ..... 273
Morishita, Don W. ..... 521
Moss, Stephen R. ..... 537
Moyer, James R. ..... 273
Nalewaja, John D. ..... 240
Nandula, Vijay K. ..... 6
Naylor, Robert E.L. ..... 23
Norsworthy, Jason K. ..... 111, 227, 252, 341, 474
O'Donovan, John T. ..... 70
Oliveira, Marcos J. ..... 111, 227, 341, 474
Oliver, Lawrence R. ..... 293
Osborne, Jason A. ..... 157
Palmquist, Debra ..... 346
Panetta, F. Dane ..... 644
Parker, Chris ..... 386
Parsons, Robert F. ..... 185
Patzoldt, William L. ..... 327, 421
Peachey, R.E. ..... 49
Peterson, A. Townsend ..... 41
Poston, Daniel H. ..... 6
Powles, Stephen B. ..... 566
Prather, Timothy S. ..... 619
Price, William J. ..... 521
Prostko, Eric P. ..... 359
Puri, Atul ..... 12, 412, 441, 578
Quinn, Lauren D. ..... 319
Raimundo, Rafael L. G. ..... 41
Rauterkus, Michael A. ..... 319
Rayburn, A. Lane ..... 119
Reddy, Krishna N. ..... 6
Regnier, E. E. ..... 16
Renner, Karen A. ..... 30, 606
Rew, L. J. ..... 652
Reynolds, Daniel B. ..... 399, 406
Roichman, Asia ..... 152
Ruiz-Santaella, Juan Pedro ..... 435
Santini, Judith B. ..... 592
Sapsford, Kenneth L. ..... 70

Schachetti-Pereira, Ricardo ..... 41
Scherder, Eric F. ..... 169
Schillinger, William F. ..... 381
Schmoll, J.T. ..... 16
Schuster, Christopher L. ..... 147, 429
Seastedt, Timothy R. ..... 164
Shaner, Dale L. ..... 1, 528
Shaw, David R. ..... 293
Sheley, Roger L. ..... 178, 311, 365, 626
Shoup, Douglas E. ..... 147
Shrestha, Anil ..... 446
Sicher, R.C. ..... 288
Simmons, F. William ..... 235
Singh, Megh ..... 441
Smith, Richard G. ..... 212
Sosnoskie, Lynn M. ..... 129
Spears, Janet F. ..... 264
Spokes, Kurt ..... 584
Sprague, Christy L. ..... 235
Stahlman, Phillip W. ..... 260
Stall, William M. ..... 613
Stapleton, James J. ..... 619
Steckel, Lawrence E. ..... 235
Steenworth, Kerri L. ..... 352
Stephenson, IV, Daniel O. ..... 293
Stoller, Edward W. ..... 235
Swanton, Clarence J. ..... 75, 446
Talbert, Ronald E. ..... 169
Tao, Bo ..... 240
Taper, M. L. ..... 652
Tarasoff, Catherine S. ..... 36, 305
Tardif, Francois ..... 558
Tatum, Tatiana C. ..... 119
Terra, Brescia R. M. ..... 491
Thimmapuram, Jyothi ..... 193
Tranel, Patrick J. ..... 119, 327, 421
Treadwell, Lucinda W. ..... 137
Trucco, Federico ..... 119
Van Acker, Rene C. ..... 60
Van Hezewijk, Brian H. ..... 273
Veilleux, Lissa ..... 352
Vencill, William K. ..... 638
Vila-Aiub, Martin M. ..... 566
Volenberg, Dean S. ..... 327
Wagner, Nicole C. ..... 652
Walter, Jared R. ..... 119
Walters, Daniel T. ..... 102
Wang, Cing-Yuh ..... 631
Wang, Shiwen ..... 95
Wang, Xianzhong ..... 334
Watson, Alan K. ..... 371
Wax, Loyd M. ..... 235
Weber, J.S. ..... 299
Webster, Theodore M. ..... 143, 359
Wehtje, Glenn R. ..... 157
Weller, Stephen C. ..... 508
West, Mark S. ..... 1
Westphal, Andreas ..... 592, 665
Westra, Philip H. ..... 572
Westwood, James H. ..... 83
Whaley, Cory M. ..... 83
White, Sharon S. ..... 606
Whytock, G.P. ..... 23
Widmer, Timothy L. ..... 465
Wiersma, Jochum ..... 584
Wilcut, John W. ..... 264
Williams, II, Martin M. ..... 245, 502
Wilson, Henry P. ..... 83
Wilson, Robert G. ..... 572
Witharama, W.R.G. ..... 23
Woodyard, Andrew J. ..... 119
Xu, Ming ..... 671
Ya Reznik, Sergey ..... 465
Yang, C. ..... 537
Yelverton, Fred H. ..... 486
Young, Chiu-Chung ..... 631
Yu Dolgovskaia, Margarita ..... 465
Yu, L. Q. ..... 599
Zhang, J. P. ..... 599
Zhang, Z. B. ..... 599
Zheng, Danman ..... 119
Zhou, Jingkai ..... 240
Ziska, Lewis H. ..... 288

# Subject Index—Volume 55
# January–December 2007


2,4-D . . . . . 371
absorption . . . . . 6, 147, 406, 541
*Abutilon theophrasti* 30, 102, 240, 491, 546, 606
ACCase resistance . . . . . 91, 537
accelerated degradation . . . . . 528
*Acroptilon repens* . . . . . 311, 365
adjuvant . . . . . 6, 240, 399, 406
adsorption . . . . . 157
afterripening . . . . . 36
agamospermy . . . . . 119
airborne hyperspectral data . . . . . 671
*Alopecurus japonicus* . . . . . 537
ALS resistance . . . . . 83, 399, 421, 558
alternate host . . . . . 592
*Amaranthus hybridus* . . . . . 83, 613
*Amaranthus palmeri* . . . . . 119, 260, 293
*Amaranthus powellii* . . . . . 218
*Amaranthus retroflexus* . . . . . 446, 606
*Amaranthus rudis* . . . . . 235, 421
*Amaranthus tuberculatus* . . . . 119, 327, 421
*Ambrosia trifida* . . . . . 16
antagonism . . . . . 429
aquatic weed . . . . . 412, 441
*Arabidopsis thaliana* . . . . . 83, 283
*Arundo donax* . . . . . 319
atrazine degradation . . . . . 528
atrazine . . . . . 75, 429
auxinic herbicide . . . . . 169
*Avena fatua* . . . . . 95, 212, 584, 652
bermudagrass . . . . . 486
bioassay . . . . . 528, 638
biocontrol . . . . . 599
biocontrol agent propagation . . . . . 273
biocontrol benefits . . . . . 497
bioherbicide . . . . . 371, 599
biological control . . 137, 164, 273,371, 497
biomass partitioning . . . . . 517
biotic resistance . . . . . 299
bispyribac . . . . . 399, 406
*Bromus tectorum* . . . . . 91
bud dormancy . . . . . 346
burial depth . . . . . 30, 49, 481
calcium content . . . . . 147
carbohydrate partitioning . . . . . 346
carbon dioxide levels . . . . . 288
*Centaurea solstitialis* . . . . . 465, 671
*Chenopodium album* . . . . . 147, 446, 572
*Chromolaena odorata* . . . . . 41
clethodim . . . . . 6
climate change . . . . . 288
clopyralid . . . . . 365
cohorts . . . . . 252
*Commelina benghalensis* . . . . . 359
competition . . 245, 319, 334, 359, 465, 491, 613
competitive ability hypothesis . . . . . 465
competitive cultivars . . . . . 245
*Convolvulus arvensis* . . . . . 352
*Conyza canadensis* . . . . . 508
corn . . . . . 75, 102, 491, 502
co-supression . . . . . 283
cotton . . . . . 143, 264
cover crops . . . . . 613
creeping bentgrass . . . . . 541
critical period . . . . . 359
crop rotation . . . . . 212
crop tolerance . . . . . 521
cross resistance . . . . . 83, 421
*Crotalaria juncea* . . . . . 613
CtpA protease . . . . . 283
*Curvularia lunata* . . . . . 599
*Cynodon dactylon* . . . . . 6
*Cynoglossum officinale* . . . . . 273
*Cyperus esculentus* . . . . . 613
D1 protease . . . . . 283
density dependence . . . . . 212
desert wheatgrass . . . . . 626
diplotaxis tenuifolia . . . . . 481
dispersal vectors . . . . . 178
dormancy . . 16, 36, 49, 111, 123, 187, 218
*Echinochloa crus-galli* . . . 399, 406, 446, 599
economic return . . . . . 75
economic threshold . . . . . 70
efficacy . . . . . 75, 264, 399, 491
elevated carbon dioxide . . . . . 334
emergence models . . . . . 341, 455, 584
emergence . . 16, 23, 30, 49, 60, 187, 227, 264, 341, 455, 474, 481
empirical model . . . . . 652
endoreduplication . . . . . 578
enhanced degradation . . . . . 631
eradication model . . . . . 644
eradication program . . . . . 644
*Ericameria teretifolia* . . . . . 365
*Euphorbia esula* . . . . . 193, 346
exotic species . . . . . 386
expressed sequence tag . . . . . 193
fallow . . . . . 212
fatal germination . . . . . 30
feral rye . . . . . 204
field margin . . . . . 129
fitness . . . . . 441
fluazifop-P . . . . . 91
fluridone resistance . . . . . 441
fluridone . . . . . 12, 412, 578
fluroxypyr . . . . . 260
forest edge . . . . . 299
functional classification . . . . . 193
gene expression . . . . . 546
gene flow . . . . . 95, 119
genetic diversity . . . . . 95
genetic variation . . . . . 578
genomics . . . . . 193, 546
geographic range . . . . . 41
germination . . 30, 36, 111, 123, 218, 227, 264, 305, 474, 481
glufosinate . . . . . 631
glufosinate-degrading bacteria . . . . . 631
glyphosate resistance 327, 435, 508, 566, 572
glyphosate . . 1, 147, 240, 252, 327, 352, 572
granivory . . . . . 606
ground beetles . . . . . 606
growing degree days . . . . . 60, 455
growth analysis . . . . . 102
growth rate . . . . . 334, 592
halosulfuron . . . . . 638
haloxyfop . . . . . 537
*Helminthosporium gramineum* . . . . . 599
herbicide dissipation . . . . . 528, 638
herbicide drift . . . . . 1, 169
herbicide efficacy . . . . . 147, 240, 260
herbicide mixtures . . . . . 429
herbicide persistence . . . . . 638
herbicide residues . . . . . 521
herbicide resistance . . . 12, 83, 91, 558, 566
herbicide selection . . . . . 95
herbicide target . . . . . 283
herbicide timing . . . . . 508
herbivory . . . . . 137
host plants . . . . . 665
hybridization . . . . . 119
*Hydrilla verticillata* . . . . . 12, 412, 441, 578
hydrothermal time . . . . . 23, 341, 584
hyperspectral reflectance . . . . . 293
hyperspectral remote sensing . . . . . 671
imazethapyr . . . . . 558
insect rearing . . . . . 273
integrated pest management . . . . . 143, 665
interference . . . . . 70
intraspecific variation . . . . . 218
invasive species . . . . . 578, 626, 671
invasive species . . 12, 41, 137, 164, 178, 299, 311, 319, 365, 386, 465
invasiveness model . . . . . 386
*Ipomoea lacunose* . . . . . 111, 293
IWM . . . . . 502, 508, 606
Kentucky bluegrass . . . . . 36, 305, 541
*Kochia scoparia* . . . . . 260
*Lamium amplexicaule* . . . . . 665
*Lamium purpureum* . . . . . 592, 665
leaf disc assay . . . . . 1
light quality . . . . . 111
*Linaria dalmatica* . . . . . 164
local adaptation . . . . . 204
*Lolium multiflorum* . . . . . 435
mechanistic model . . . . . 446
*Mecinus janthinus* . . . . . 164
*Meloidogyne incognita* . . . . . 143
mesotrione . . . . . 429
microarray analysis . . . . . 546
microbial metabolism . . . . . 528
microevolution . . . . . 218
microsite . . . . . 23
*Mogulones cruciger* . . . . . 273
mowing . . . . . 486
*Mucuna deeringiana* . . . . . 613
multiple pests . . . . . 143
nicosulfuron . . . . . 429
nitrogen uptake . . . . . 102
nitrogen . . . . . 102, 319
no tillage . . . . . 49
nontarget herbivory . . . . . 164
nontarget impact . . . . . 164
*Oenothera laciniata* . . . . . 264
old-growth forests . . . . . 299
organic grapes . . . . . 352
organic . . . . . 212
*Orobanche aegyptiaca* . . . . . 152
*Orobanche minor* . . . . . 517
*Orobranche ramosa* . . . . . 644
oryzalin . . . . . 157
osmotic potential . . . . . 305
*Panicum miliaceum* . . . . . 245, 502
parasitic weed control . . . . . 152
parasitic weed . . . . . 517
*Parthenium hysterophorus* . . . . . 497
*Paspalum dilatatum* . . . . . 486

*Paspalum notatum* ... 486
path analysis ... 502
peanut ... 359
perennial ryegrass ... 541
perennial weeds ... 346
persistence ... 528
pest interactions ... 143
phenology ... 446, 455
phytoene desaturase gene ... 412
plant growth stage ... 147
ploidy level ... 578
*Poa annua* ... 541
poison ivy ... 288
polymeric resin ... 157
population dynamics ... 502
potato ... 521
predictive modelling ... 41
prohexadione calcium ... 541
proso millet ... 1
*Puccinella distans* ... 36, 305
*Puccinella nuttalliana* ... 36, 305
quinclorac ... 169
rainfast period ... 399
range reseeding ... 365
rangeland ... 365
red clover ... 517
reduced rates ... 491
rehabilitation ... 311
relative growth rate ... 441
remote sensing ... 293
replacement series ... 613
resistance assay ... 537
resistance mechanism ... 421, 435, 558
resistance ... 327, 412
rhizome growth ... 319
rhizome production ... 486
rice ... 599
rimsulfuron ... 429
riparian weed management ... 311
row width ... 252
salinity ... 305
*Salsola iberica* ... 381
*Schinus terebinthifolius* ... 137
*Sclerotinia minor* ... 371
*Scripus americanus* ... 319
*Secale cereale* ... 204
seed depth ... 152
seed dispersal ... 626
seed longevity ... 187
seed mortality ... 16, 123
seed production ... 334, 381
seed rate ... 70
seed starch content ... 465
seedbank ... 16, 23, 60, 187, 212, 235, 371, 508, 619
*Senecio vulgaris* ... 187
*Senna obtusifolia* ... 252
*Setaria faberi* ... 30, 455, 606
shikimate ... 1
simulation model ... 644
*Sinapis arvensis* ... 446
site-specific management ... 652
slow release ... 157
S-metolachlor ... 638
snap bean ... 502
soil amendments ... 123
soil nitrogen ... 123
soil pathogens ... 30
soil solarization ... 619
soil water ... 381
*Solanum ptycanthum* ... 558
*Solanum sarrachoides* ... 49
*Sonchus* spp. ... 352
*Sorghum halepense* ... 566
southern root-knot nematode ... 143
soybean cyst nematode ... 592, 665
soybean ... 252, 341, 474, 566, 665
species diversity ... 311
species richness ... 129, 311
spray retention ... 435
sugarcane ... 23
sulfentrazone ... 638
sulfometuron ... 521
sulfosulfuron ... 152
sunflower ... 1
sweet corn ... 245
*Taeniatherum eaput-medusae* ... 626
*Taraxacum officinale* ... 334, 371
thermal amplitude ... 111, 227
tillage intensity ... 235, 474
tomato ... 152, 169
*Toxicodendron radicans* ... 288
*Tragopogon dubius* ... 626
translocation ... 6, 147, 406, 435, 541
triploidy ... 119
turfgrass ... 371, 486
uptake ... 435
vegetation index ... 671
*Vigna unguiculata* ... 613
vineyard ... 352
volunteer barley ... 70
volunteer wheat ... 60
waterhemp ... 327
weed biotype ... 218
weed community ... 352
weed control ... 381
weed diversity ... 129
weed dynamics ... 252
weed ecology ... 178
weed escape ... 491
weed evolution ... 204
weed growth model ... 446
weed populations ... 129
weed risk assessment ... 386
weed seed predation ... 606
weed seedbank ... 123, 502
weed spread ... 178
weed suppression ... 245
wheat ... 1, 70, 381, 652
wind-dispersed seed ... 626
*Xanthium strumarium* ... 143, 227, 341, 474
yield loss ... 70, 359
yield prediction ... 652